OXC - 0079

6 November 1959

	and the control of th
	MEMORANDUM FOR: Security Officer, DPD
	THROUGH : Deputy Chief, Development Branch
	SUBJECT : Request for OXCART Clearences
	1. It is requested that the individuals listed below, who are CSI employees, be granted OXCART classesces:
25X1A	
25X1A	2 is the Agency's ELIMT Staff Officer and as such is responsible for coordinating and being cognisant of all ELIMT activities. He will be able to render valuable assistance in interpreting ELIMT requirements and determining feasibility of satisfying these requirements with the ELIMT system.
25X1A	is Chief of the KLIMT Branch of CSI. He is intimately familiar with all the CHALICE KLIMT collection systems and associated readout gear. His assistance will be most valuable in establishing final system design parameters. He will also be able to provide guidance to insure compatability between the collection system and the readout gear. This is especially desirable in order to preclude the possibility of securing an ELIMT system, the take of which could not be analyzed with existing equipment, thus necessitating development of new readout equipment.
25X1A	
	Development Officer
	Distribution: Orig & 1 - Addressee  1 - Ch/DB  1 - DB  1 - RI/DPD
25X1A	DB/DPD-DD/PL lied

GUS 0383 Copys of 7

19 August 1959

MEMORANDUM FOR THE RECORD

SUBJECT: Project GUSTO

1. On 6 August, a meeting was convened at Project Headquarters to discuss compatability and possible areas of conflict between the GUSTO camera installation and GUSTO sircraft electronic (radar) shielding. Meeting was attended by:

25X1A

Parkin-Elmer Perkin-Elmer

Project Headquarters

Project Headquarters

2. The primary area of possible conflict appears to center around the camera port glasses. Discussion covered size, shape and location of windows, as well as composition (ie., fused quartz vs. glass) for both the Lockheed and Convair proposal.

25X1A

a. P&E had previously planned to gold plate the front surface to the second layer of the camera port to reduce infra-red transmission. This plating has an extremely high visible transmission characteristic stated that such a albeit providing required filtering. coating would concurrently minimise radar return provided surface reflectivity falls within certain (to be determined) ohms per square auríace.

25X1A

b. The second major item of interest was the difference between discontinuity of energy (radar return) bounced from the skin of the aircraft and the outer edges of the depth of the depression cut into the fusciage to accommodate the camera port glass. stated that such sharp differences in depth (measurement as yet undetermined) makes specular scattering of energy difficult. Several suggestions were discussed as a means of minimizing returns from these edgest

Approved For Release 2003/01/24: CIA-RDR67B00511R000100110120-6

25X1

- 18 3

- (1) Depth of depression will determine extent of problem.
- (2) Front surface coating of camera port with metal sevens or grid might reduce return.
- (3) Possibility of sliding metal doors over camera perisduring times cameras not in operation. In addition to eliminating discontinuity of energy presented by returns from different materials (ie., aircraft skin and quarts/glass) doors would:
  - (a) Protect windows during take-off and landing.
  - (b) Protect any coating of lenses and camera ports; coating would tend to ablate due to heat.
  - (c) Provide some insulation to camera port glass and/or camera and film when cameras not in use.

25X1A	3. To determine reflective characteristics of Perkin-Elmer's gold coating, asked that he be provided a sample for test purposes. It was agreed that P&E would provide a 10-12inch gold coated glass (or quarts if available) for such testing. Delivery of sample: approximately 10 September.					
25X1A	4. Conclusion: Discussion of mutual problem areas above, plus tests to be conducted by will probably result in a camera port which will produce minimum radar reflectivity.					
25X1A		orein <b>s</b>	Langue			
25/(1/		Major	USAF			
	RSC:bm					
	1 - AC/DPD					
	2 - AC, OPs Br. DPD 3 - Ch. Tech Analysis Staff	•				
25X1A	4 - Ch. R&D 5 - Cps chron					
	7 - GUS chron					